Project Manager Night Vision/ Reconnaissance, Surveillance & Target Acquisition (PM NV/RSTA)

Barbara Mallin

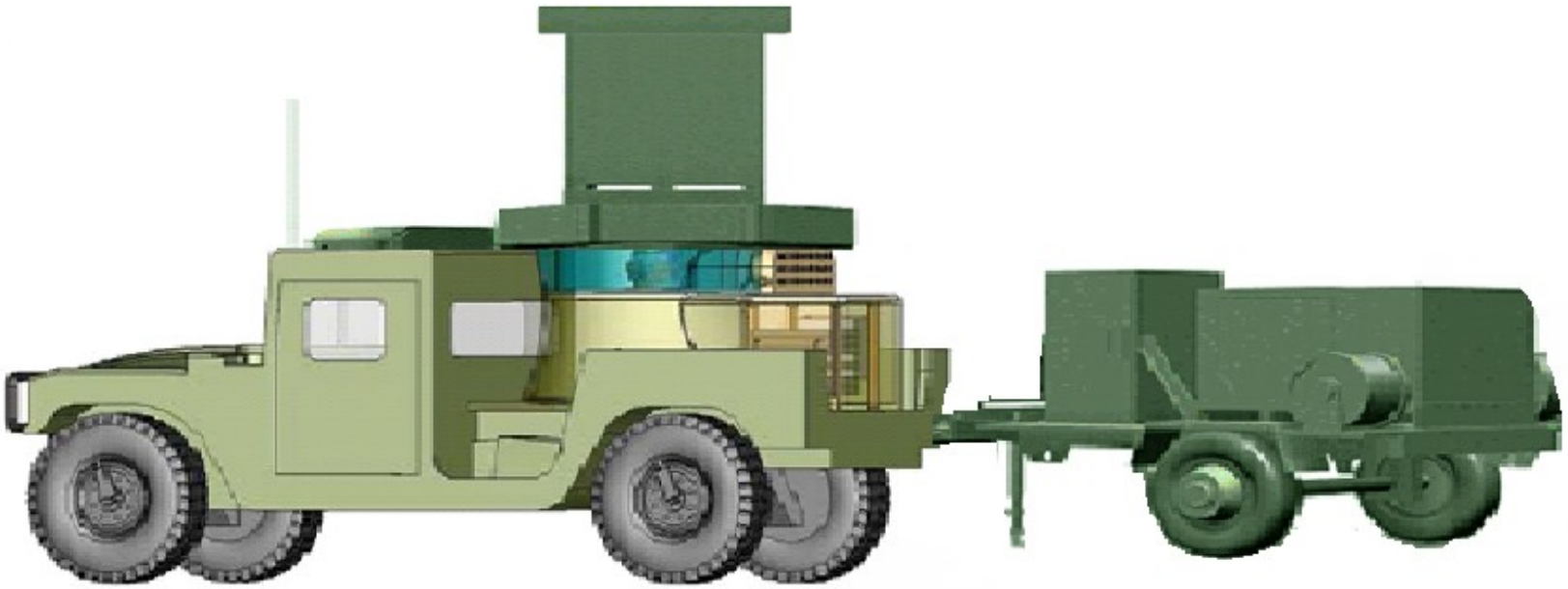
Chief, Business Management Division, PM NV/RSTA

732-427-5067

Barbara.Mallin@us.army.mil

Enhanced AN/TPQ-36

NOTIONAL CONCEPT



Enhanced AN/TPQ-36

CHARACTERISTICS

- **Provides Improved Operational and Physical Functionality Over Existing AN/TPQ-36(V)8 and AN/TPQ-37(V)8**
- **Two Phases**
  - **Phase I 90º Sector Coverage**
  - **Phase II 360º Sector Coverage**
- **C-130 Drive-on/drive-off Capability**
- **Comply With the Future Force Net Ready Key Performance Parameter**
- **Improves Accuracy and Increased Ranges**

Enhanced AN/TPQ-36

STATUS/PROGRAM DIRECTION

- **Currently in Pre-Milestone B Documentation Phase**

Enhanced AN/TPQ-36

CHALLENGES

- **Improved Ranges and Accuracy of a AN/TPQ-37 in a AN/TPQ-36 Foot Print**
- **Challenges to Mount on a HMMWV**
- **Phase II 360º Sector Coverage With Same Accuracy as 90º Sector Coverage**
- **Detecting Low Quadrant Elevation Projectiles**

Enhanced AN/TPQ-36

- **OBJECTIVE: Enhanced AN/TPQ-36**
- **CONTRACT TYPE: Cost Plus Incentive Fee/Firm Fixed Price**
- **ESTIMATED VALUE: $189M (R&D), $1,609M (Production)**
- **KEY MILESTONES: Contract Award FY06 (R&D)**
  Contract Award FY08 (Production)
- **TECHNICAL CONTACT: Bob Burrus 732-427-0772**
- **ACQUISITION CONTACT: Carol Weickert 732-427-5335**
- **SOLICITATION # OR RFQ #: N/A**

Ground Surveillance Radar AN/PPS-5D

DEFINITION

- **AN/PPS-5D is a man-portable Ground Surveillance Radar (GSR) used for detecting and audio classifying personnel and wheeled and tracked vehicles**
- **AN/PPS-5D is a cost-effective alternative to replacement for the aging AN/PPS-5 systems**
- **This upgrade completely replaces the existing electronics while retaining the antenna, tripod, azimuth drive, and telescope assemblies**

Ground Surveillance Radar AN/PPS-5D

CHARACTERISTICS

- **Significant improvements in performance, reliability and maintainability while reducing size, weight and power consumption**
- **Capable of detecting vehicles to twice the range of previous version while reducing possible detection through frequency agility and reduction in power output**
- **Utilizes a rugged laptop computer to enable operations up to 125m from the radar set**
- **Displays targets graphically in the Advanced Monitoring Display System (AMDS), which provides target data (range, bearing, and coordinates)**

Ground Surveillance Radar AN/PPS-5D

STATUS/PROGRAM DIRECTION

- **AN/PPS-5D program is post Milestone C**
- **Approximately 100 radars have been manufactured**
- **Radars have been fielded to Stryker Brigade Combat Teams, National Guard, and active units**
- **Contingency radars available to deploying units with valid Operational Need Statement**

Ground Surveillance Radar AN/PPS-5D

CHALLENGES

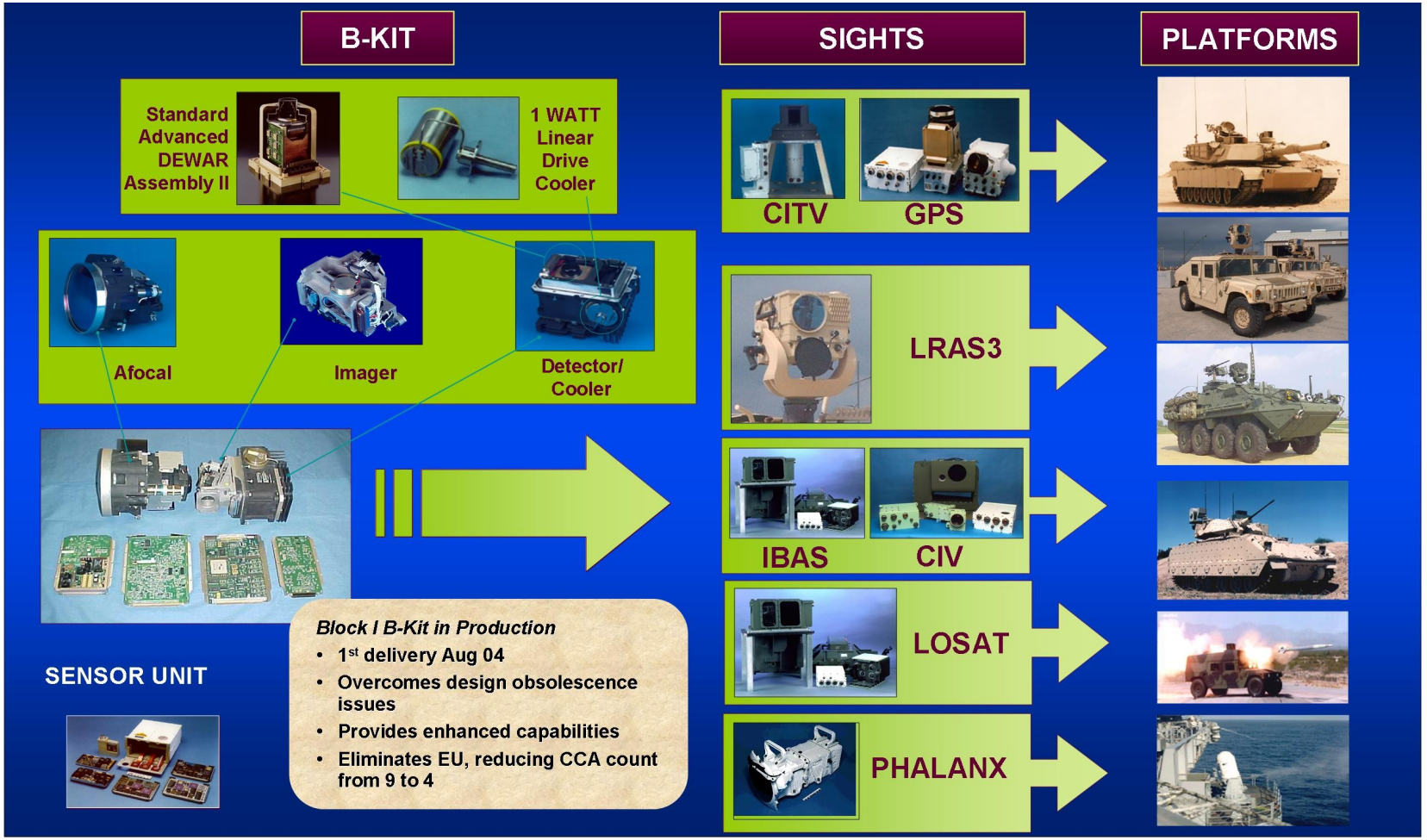
- **Procurement will be based on a performance specification since a full data package is not available.**
- **Future requirements**
  - **Field AN/PPS-5D to Stryker Brigade Combat Teams and Guard Units.**
  - **Field to Modularity Brigades if DA approval is obtained.**

Ground Surveillance Radar AN/PPS-5D

- **OBJECTIVE: To provide a contract vehicle for additional radars and support to existing hardware and software**
- **CONTRACT TYPE: Indefinite Delivery/Indefinite Quantity (ID/IQ)**
- **ESTIMATED VALUE: $10M ceiling**
- **KEY MILESTONES:**
  - **Market Survey - 15 Jun 05**
  - **RFP - 1 Jul 05**
  - **Award - 15 Dec 05**
- **TECHNICAL CONTACT: Richard Brady, PM RUS, 732-427-0283**
- **ACQUISITION CONTACT: TBD**

HTI Second Generation FLIR NV-80 B-Kit

DEFINITION



HTI Second Generation FLIR NV-80 B-Kit

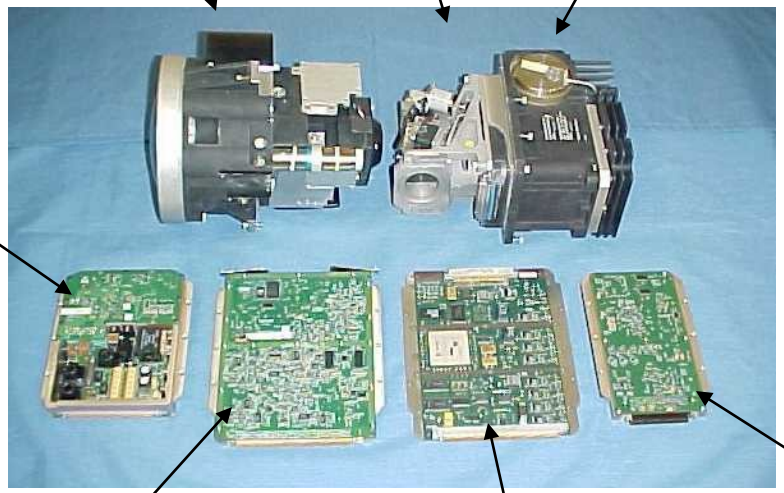
PM FLIR

DEFINITION

Receiver

AFOCAL

SADA II IMAGER Detector\Cooler



Common Power Supply CCA or TIS Power Supply (TPS includes BICU Power)

B-1 Redesign: Replaces 9 B-0 CCAs with 4 New B-1 CCAs

B-1 Redesign: No Changes to Electro Optical -Mechanical SRUs

Interface/ Graphics CCA

Motor Control CCA

Advance Video Processor CCA

HTI Second Generation FLIR NV-80 B-Kit

PM FLIR

DEFINITION

The Horizontal Technology Integration (HTI) 2nd Generation FLIR Program provides a common 2nd generation thermal sensor for the Army's highest priority ground based platforms:

- **M1A2 SEP Abrams tank**
- **M1A1 AIM tank**
- **M2A3/M3A3 Bradley Fighting Vehicle**
- **M2A2 Bradley OIF**
- **Stryker Brigade Combat Team (Recon & Fire Spt. Vehicle)**
- **M1114 Scout Vehicle**
- **M707 Knight**

In production, the program is producing "B-Kits", which are the common Forward Looking Infrared (FLIR) sensor, and sight sensors ("A-Kits") which integrate the common sight sensor into various platforms.

HTI Second Generation FLIR NV-80 B-Kit

CHARACTERISTICS

- 5 Year Competitive Award for FY06-10, Best Value
  - Possibility of split award
    - Quantities are sufficient to support two B-Kit sources
    - Industrial Base management is a focus area
  - Base and option quantities TBD due to Supplementals, Plus-Ups, etc.
    - Current FY06 base is 278 with estimated options for approximately 600 additional units
    - FY07-FY10 estimated options for 150-500 units per year
  - May require SADA/OWL be provided CFE

HTI Second Generation FLIR NV-80 B-Kit

STATUS

- RFP release scheduled for July 2005
- Award scheduled for October 2005

HTI Second Generation FLIR NV-80 B-Kit

CHALLENGES

- Quantity requirements to be determined
- Source development
- Block 1 design must be qualified 60 days prior to start of production

HTI Second Generation FLIR NV-80 B-Kit

PM FLIR

- **OBJECTIVE: Procure HTI NV-80 B-Kits for FYs 06-10**
- **CONTRACT TYPE: FFP**
- **ESTIMATED VALUE: TBD**
- **KEY MILESTONES: RFP Release Jul 05, Award Oct 05**
- **TECHNICAL CONTACT: MAJ Michelle Bailey, 703.704.0138**
- **ACQUISITION CONTACT: Ms. Deborah Gilligan, 732.532.5454**
- **SOLICITATION # OR RFQ #: None assigned yet**